FIG. 1

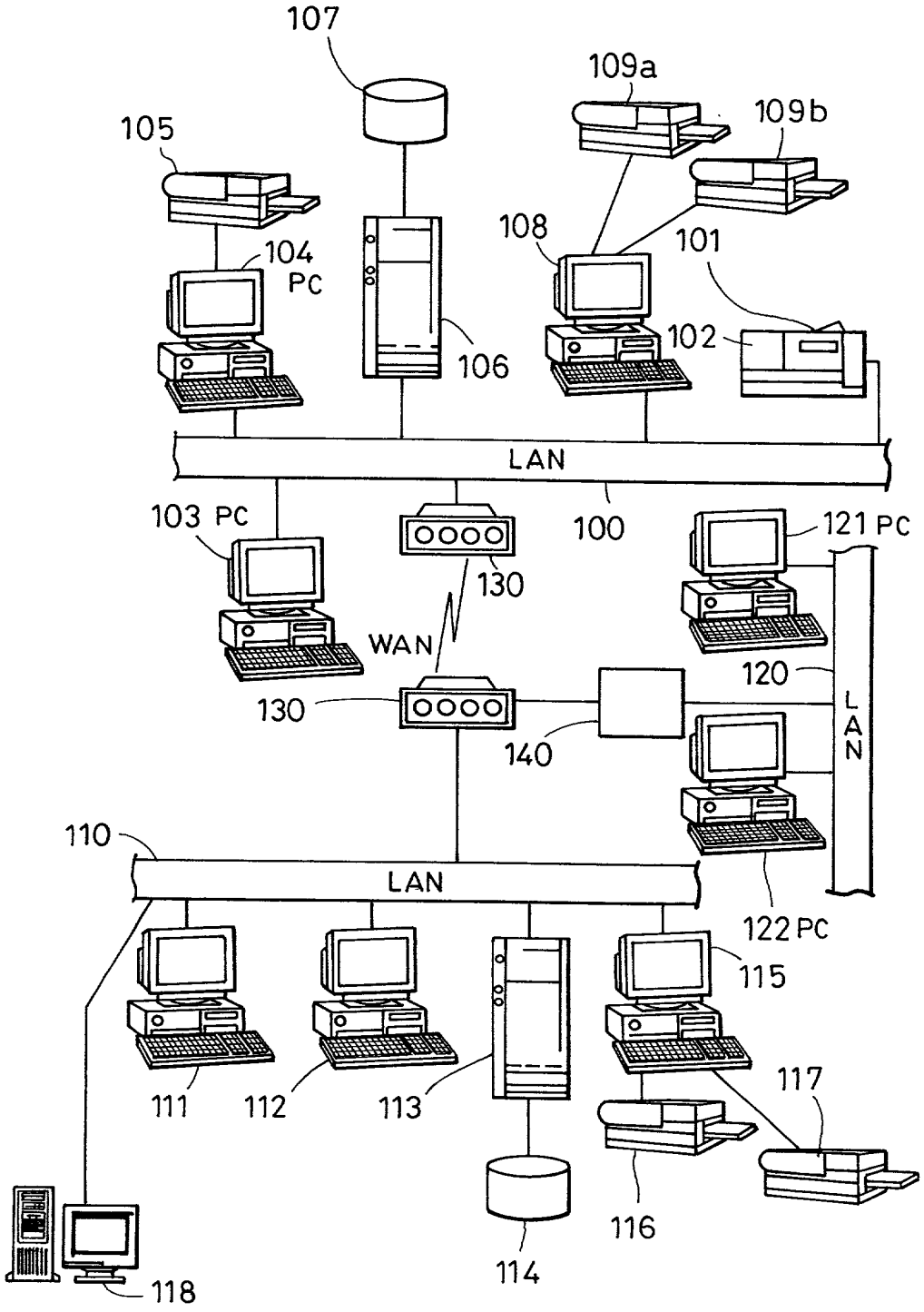
107
109a
109b
105
108
101
104
PC
102
106
LAN
100
103 PC
130
121 PC
WAN
120
130
140
LAN
110
LAN
122 PC
115
111
112
113
117
116
114
118

FIG. 2

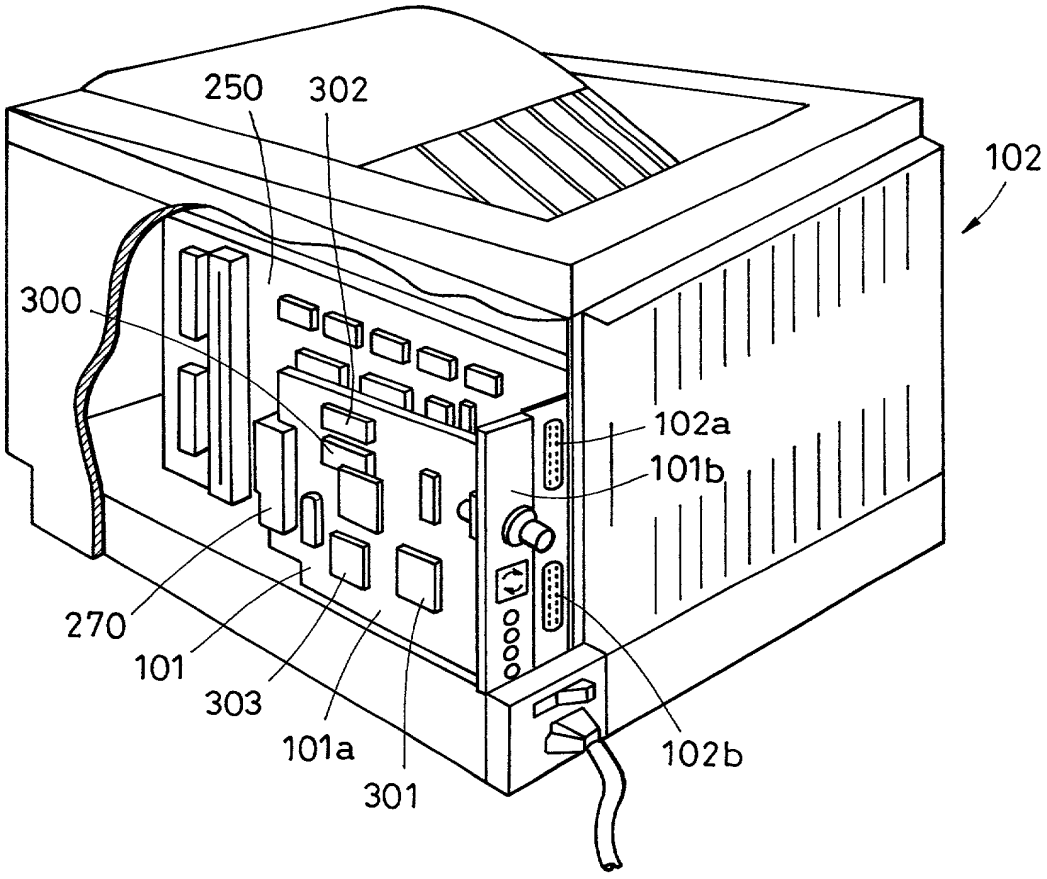

FIG. 3

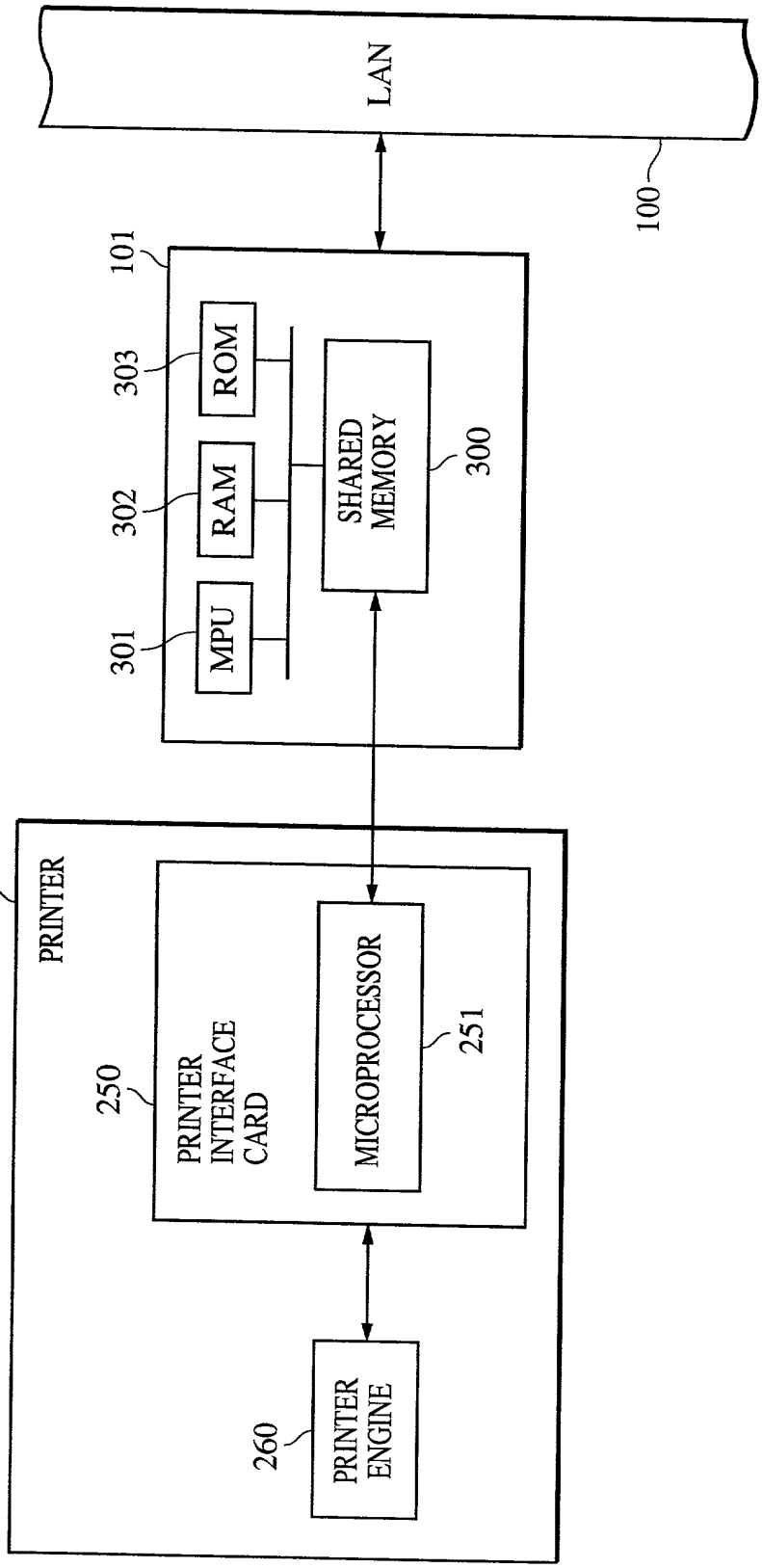
LAN
100
101
303
ROM
302
RAM
301
MPU
SHARED MEMORY
300
102
PRINTER
250
PRINTER INTERFACE CARD
MICROPROCESSOR
251
260
PRINTER ENGINE

FIG. 4

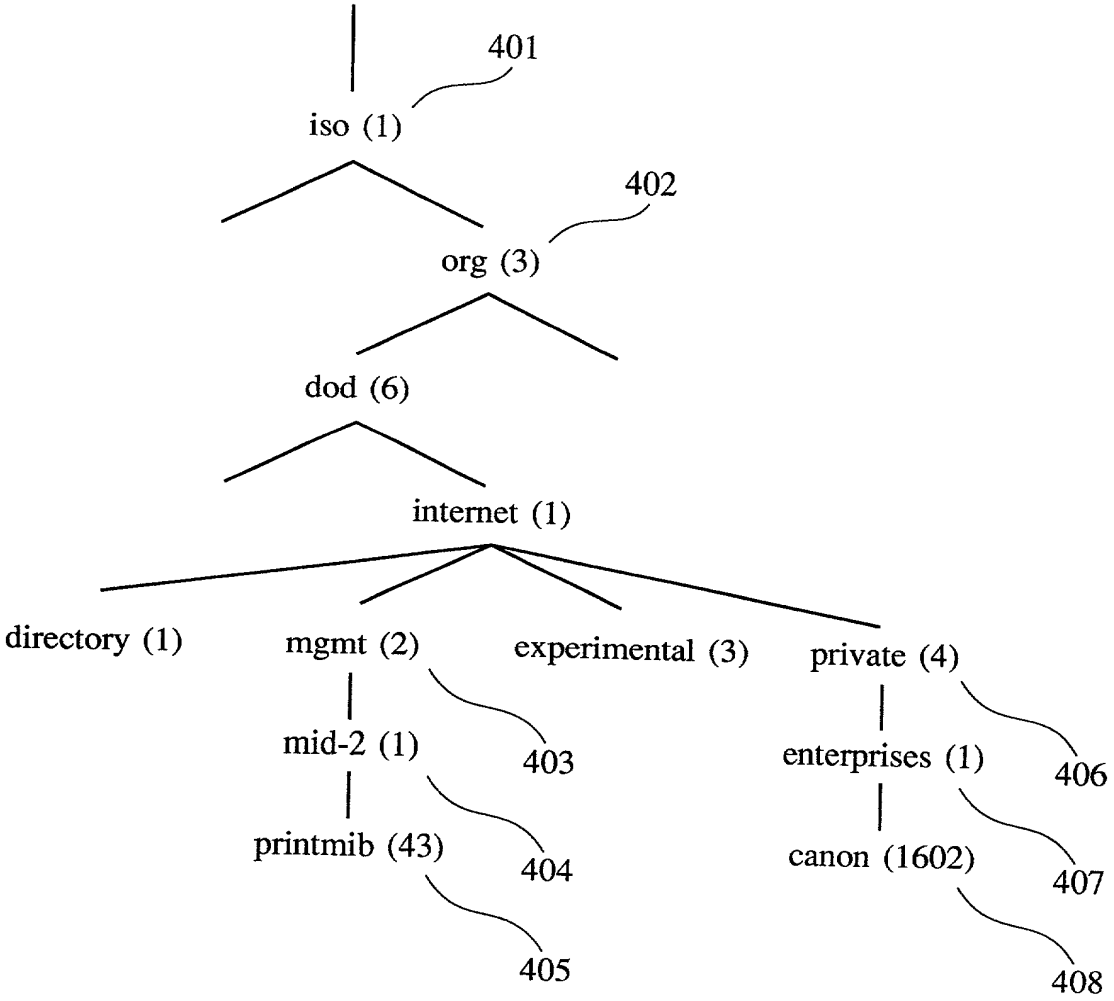
401
iso (1)
402
org (3)
dod (6)
internet (1)
directory (1)
mgmt (2)
experimental (3)
private (4)
mid-2 (1)
403
enterprises (1)
406
printmib (43)
404
canon (1602)
407
405
408

FIG. 5

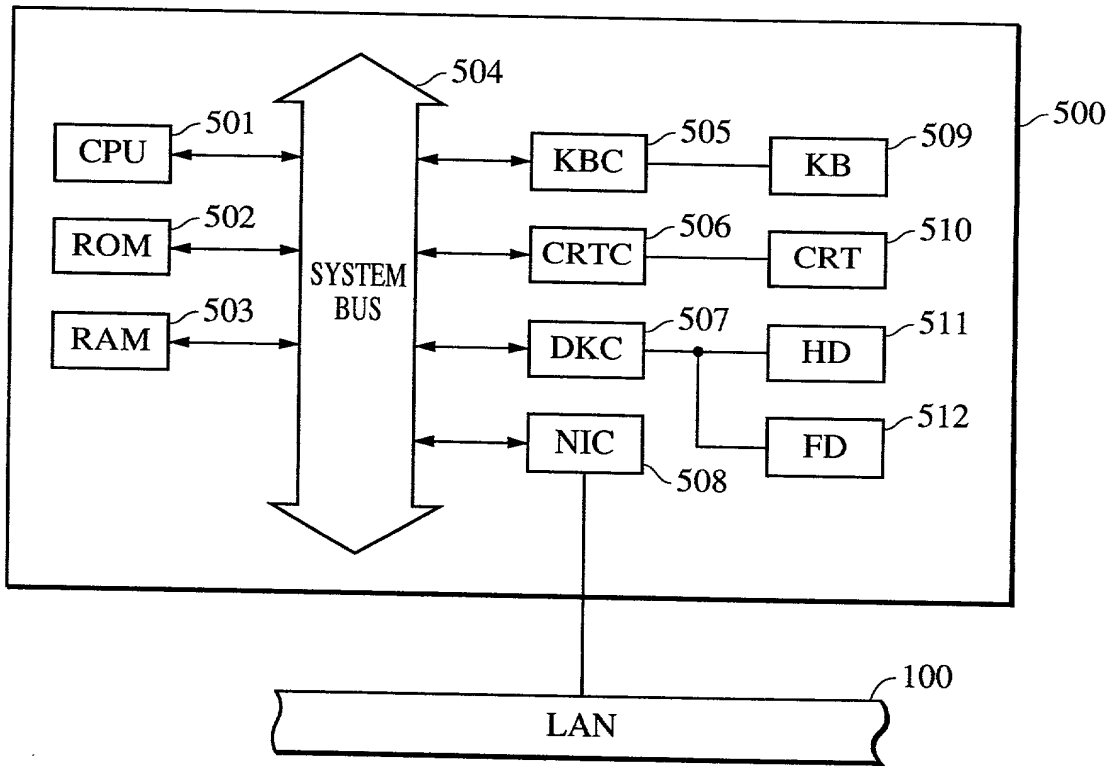
500
504
CPU
501
ROM
502
RAM
503
SYSTEM BUS
KBC
505
KB
509
CRTC
506
CRT
510
DKC
507
HD
511
FD
512
NIC
508
100
LAN

FIG. 6

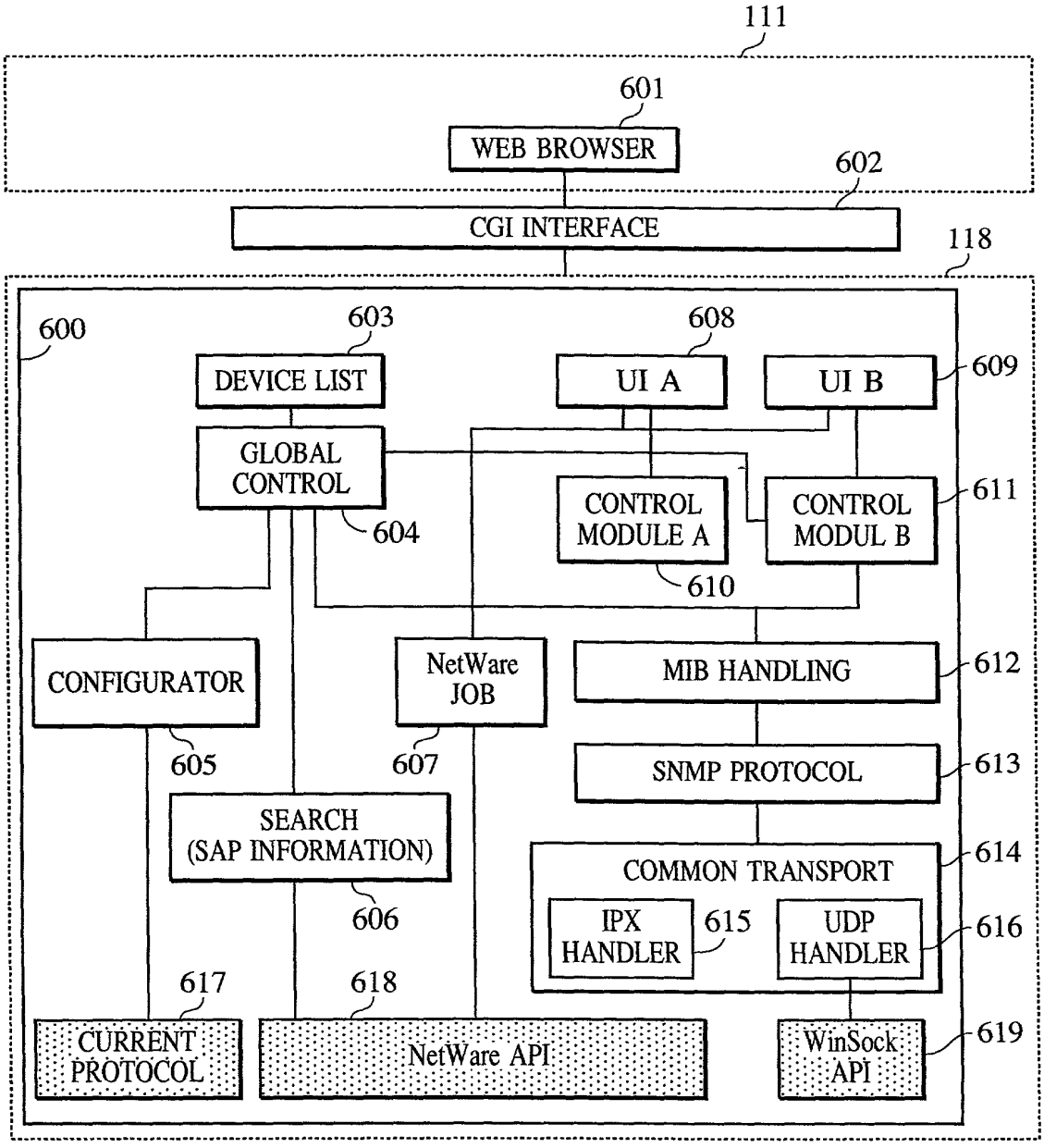
111
601
WEB BROWSER
602
CGI INTERFACE
118
600
603
DEVICE LIST
608
UI A
UI B
609
GLOBAL CONTROL
604
CONTROL MODULE A
610
CONTROL MODUL B
611
CONFIGURATOR
605
NetWare JOB
607
MIB HANDLING
612
SNMP PROTOCOL
613
SEARCH (SAP INFORMATION)
606
COMMON TRANSPORT
614
IPX HANDLER
615
UDP HANDLER
616
617
CURRENT PROTOCOL
618
NetWare API
WinSock API
619

FIG. 7

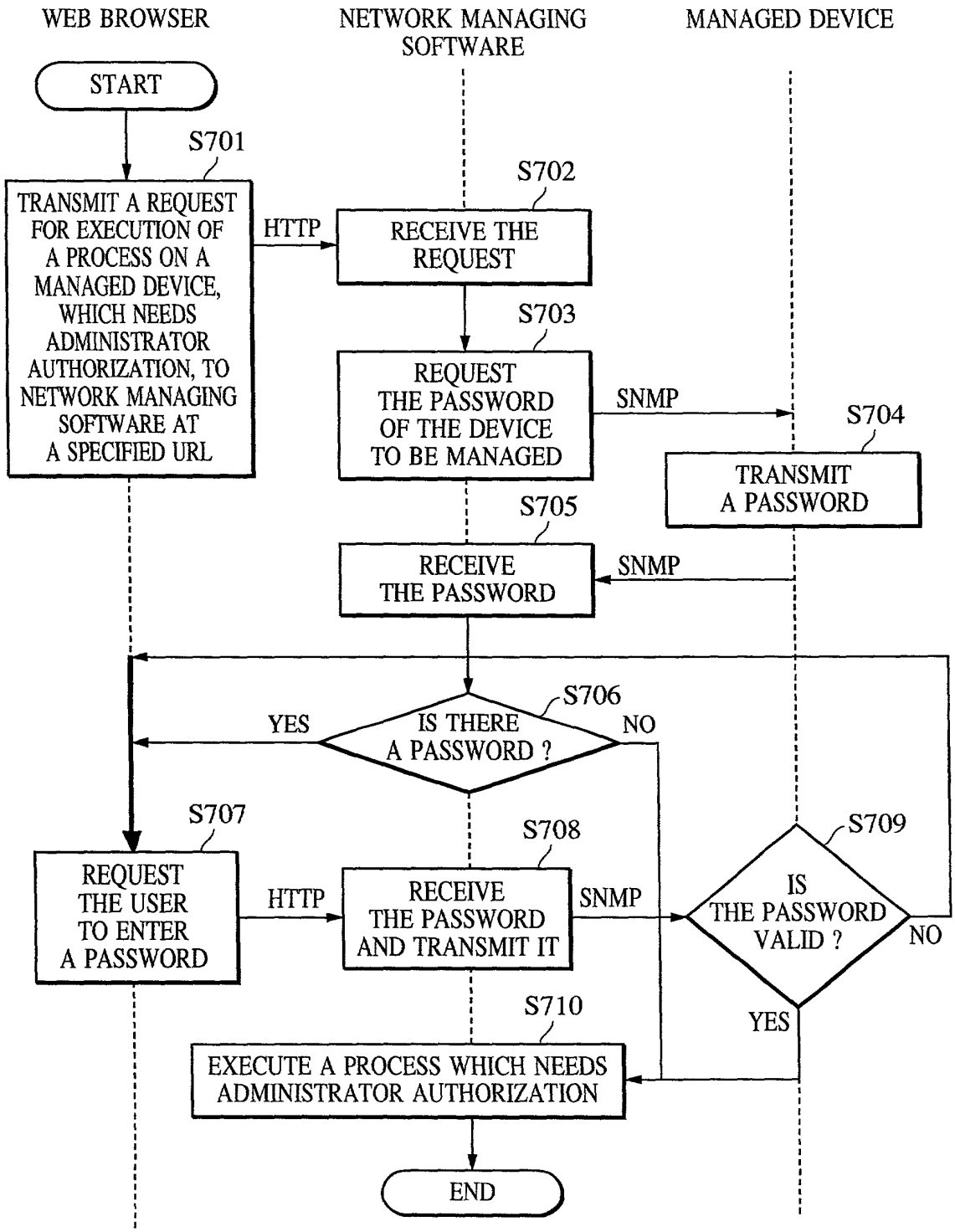
WEB BROWSER
NETWORK MANAGING SOFTWARE
MANAGED DEVICE
START
S701
TRANSMIT A REQUEST FOR EXECUTION OF A PROCESS ON A MANAGED DEVICE, WHICH NEEDS ADMINISTRATOR AUTHORIZATION, TO NETWORK MANAGING SOFTWARE AT A SPECIFIED URL
HTTP
S702
RECEIVE THE REQUEST
S703
REQUEST THE PASSWORD OF THE DEVICE TO BE MANAGED
SNMP
S704
TRANSMIT A PASSWORD
S705
RECEIVE THE PASSWORD
SNMP
S706
IS THERE A PASSWORD ?
YES
NO
S707
REQUEST THE USER TO ENTER A PASSWORD
HTTP
S708
RECEIVE THE PASSWORD AND TRANSMIT IT
SNMP
S709
IS THE PASSWORD VALID ?
NO
YES
S710
EXECUTE A PROCESS WHICH NEEDS ADMINISTRATOR AUTHORIZATION
END

FIG. 8

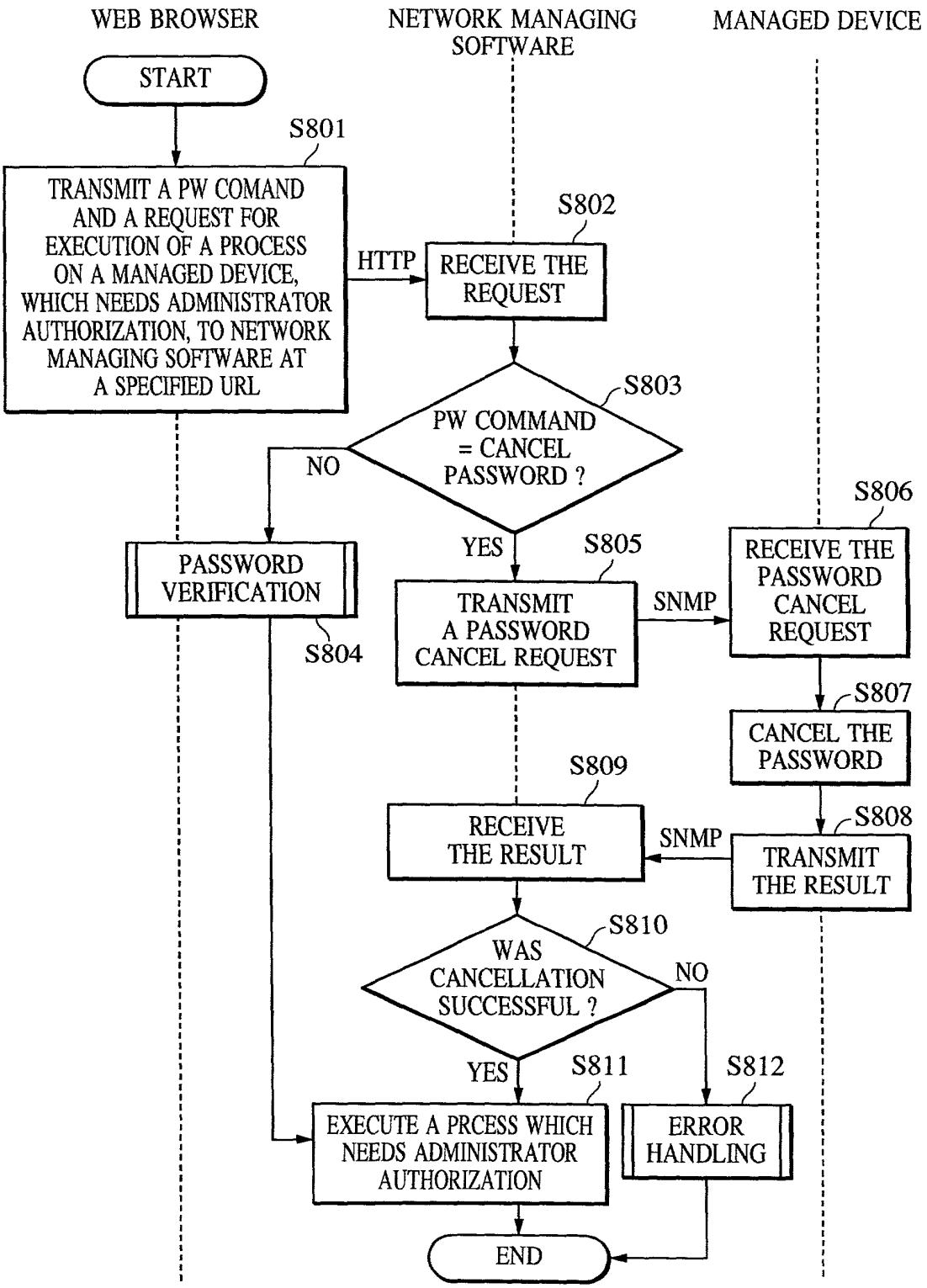
WEB BROWSER
NETWORK MANAGING SOFTWARE
MANAGED DEVICE
START
S801
TRANSMIT A PW COMAND AND A REQUEST FOR EXECUTION OF A PROCESS ON A MANAGED DEVICE, WHICH NEEDS ADMINISTRATOR AUTHORIZATION, TO NETWORK MANAGING SOFTWARE AT A SPECIFIED URL
HTTP
S802
RECEIVE THE REQUEST
S803
PW COMMAND = CANCEL PASSWORD ?
NO
YES
PASSWORD VERIFICATION
S804
S805
TRANSMIT A PASSWORD CANCEL REQUEST
SNMP
S806
RECEIVE THE PASSWORD CANCEL REQUEST
S807
CANCEL THE PASSWORD
S808
TRANSMIT THE RESULT
SNMP
S809
RECEIVE THE RESULT
S810
WAS CANCELLATION SUCCESSFUL ?
NO
YES
S811
EXECUTE A PRCESS WHICH NEEDS ADMINISTRATOR AUTHORIZATION
S812
ERROR HANDLING
END

FIG. 9

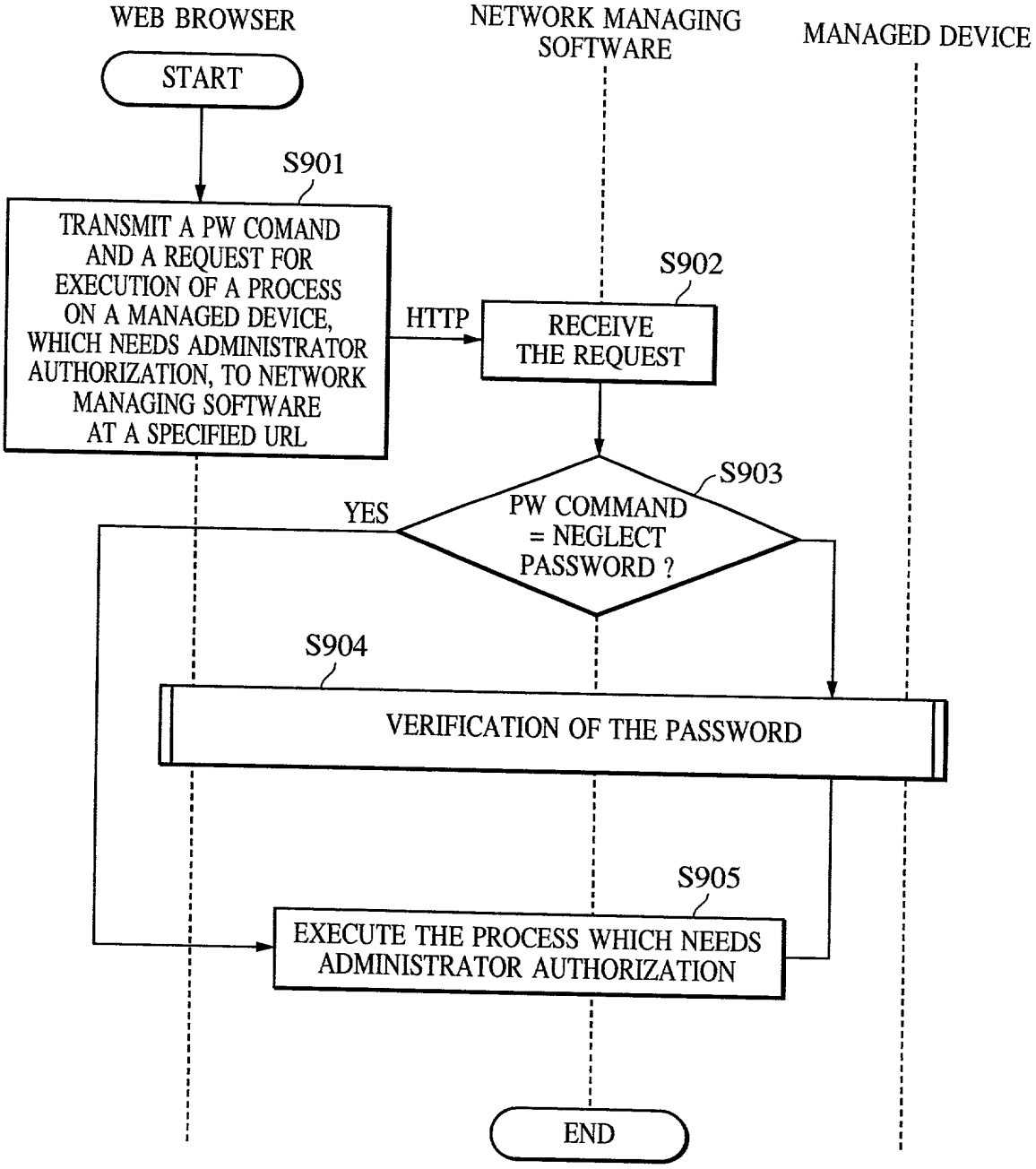
WEB BROWSER
NETWORK MANAGING SOFTWARE
MANAGED DEVICE
START
S901
TRANSMIT A PW COMAND AND A REQUEST FOR EXECUTION OF A PROCESS ON A MANAGED DEVICE, WHICH NEEDS ADMINISTRATOR AUTHORIZATION, TO NETWORK MANAGING SOFTWARE AT A SPECIFIED URL
HTTP
S902
RECEIVE THE REQUEST
S903
PW COMMAND = NEGLECT PASSWORD ?
YES
S904
VERIFICATION OF THE PASSWORD
S905
EXECUTE THE PROCESS WHICH NEEDS ADMINISTRATOR AUTHORIZATION
END

FIG. 10

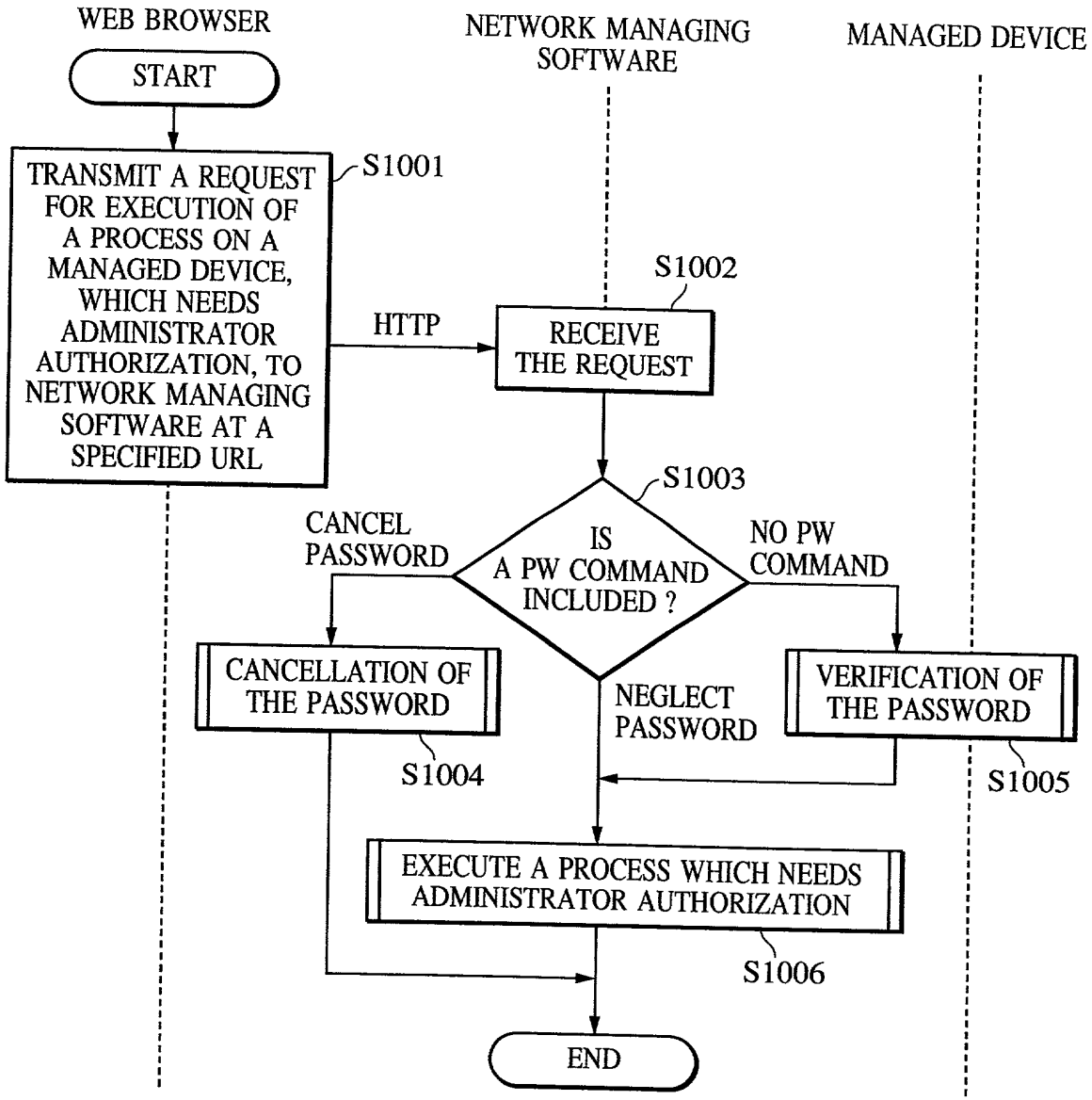
WEB BROWSER
NETWORK MANAGING SOFTWARE
MANAGED DEVICE
START
TRANSMIT A REQUEST FOR EXECUTION OF A PROCESS ON A MANAGED DEVICE, WHICH NEEDS ADMINISTRATOR AUTHORIZATION, TO NETWORK MANAGING SOFTWARE AT A SPECIFIED URL
S1001
HTTP
RECEIVE THE REQUEST
S1002
IS A PW COMMAND INCLUDED ?
S1003
CANCEL PASSWORD
NO PW COMMAND
CANCELLATION OF THE PASSWORD
S1004
NEGLECT PASSWORD
VERIFICATION OF THE PASSWORD
S1005
EXECUTE A PROCESS WHICH NEEDS ADMINISTRATOR AUTHORIZATION
S1006
END

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FIG. 11

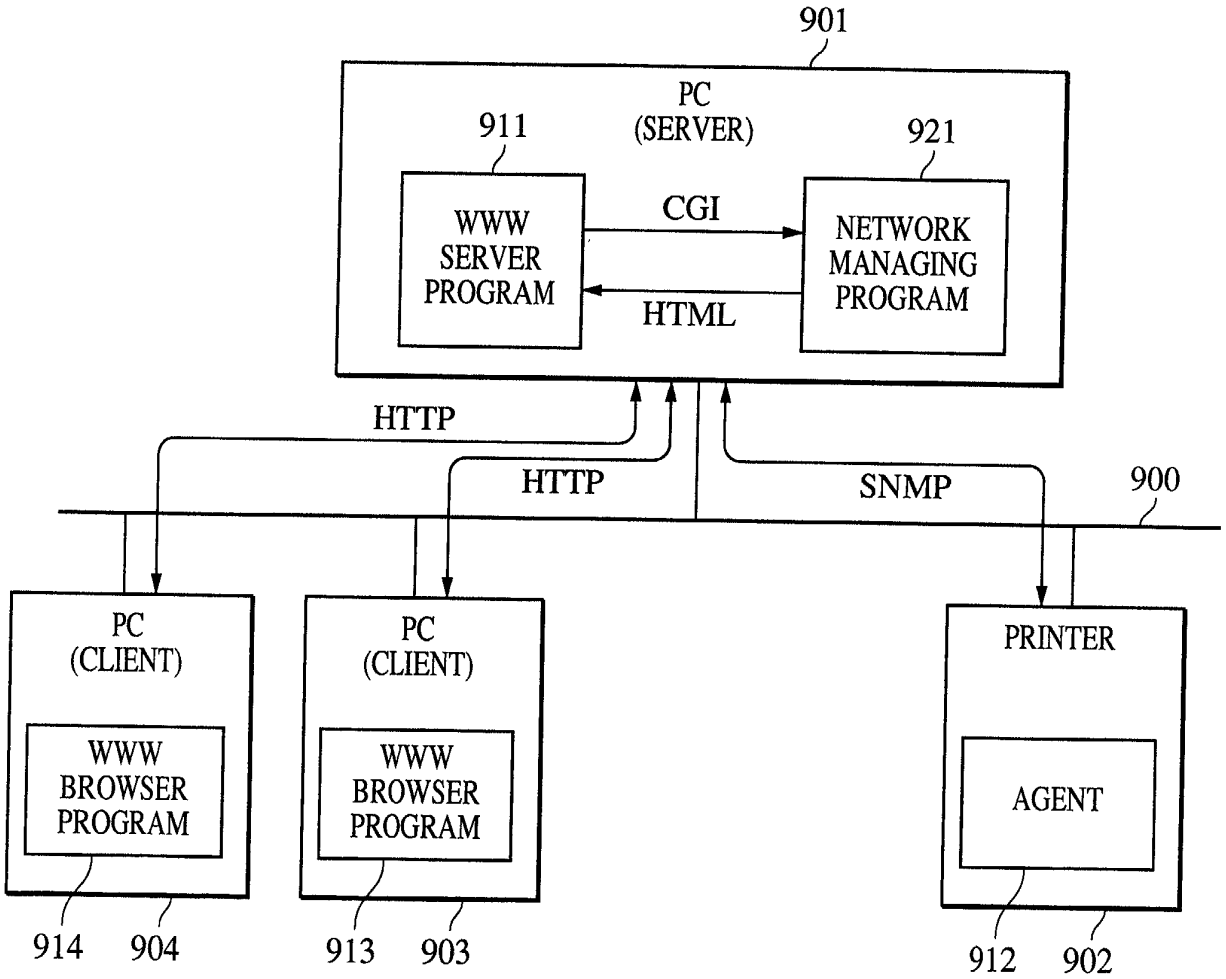

FIG. 12

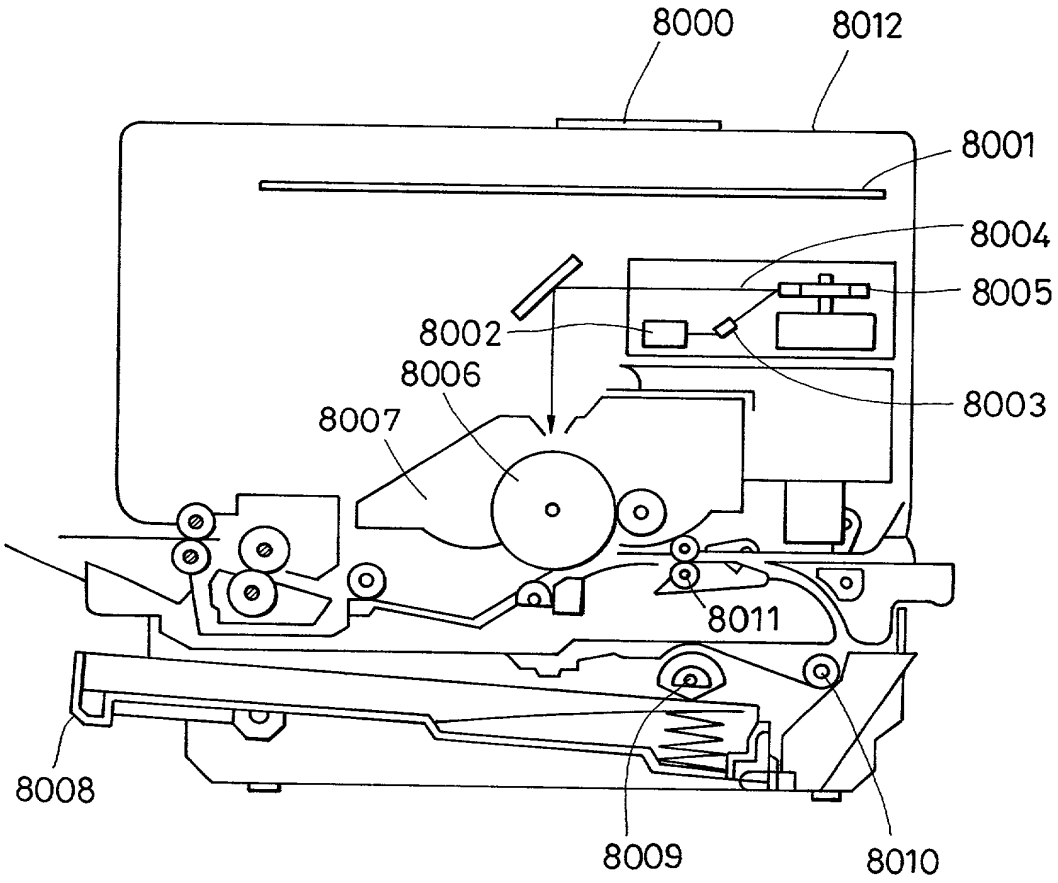
8000
8012
8001
8004
8005
8002
8006
8003
8007
8011
8008
8009
8010

FIG. 13

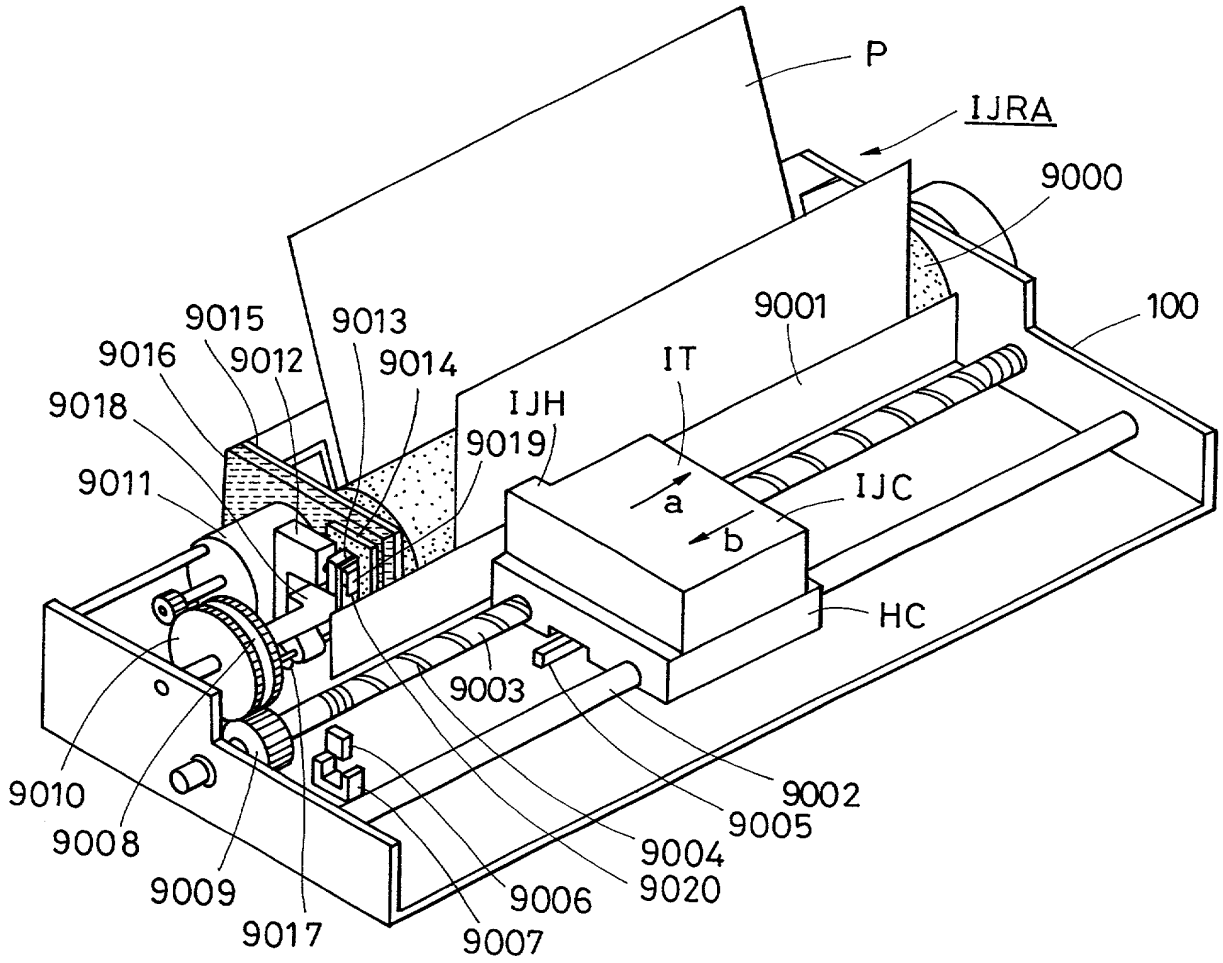
P
IJRA
9000
100
9001
9015
9013
9016
9012
9014
IT
9018
IJH
9019
9011
IJC
a
b
HC
9003
9010
9002
9008
9005
9004
9009
9020
9006
9017
9007

FIG. 14

| |
|---|
| PROGRAM CODE CORRESPONDING TO THE DEVICE LIST MODULE |
| PROGRAM CODE CORRESPONDING TO THE GLOBAL CONTROL MODULE |
| PROGRAM CODE CORRESPONDING TO THE CONFIGURATOR MODULE |
| PROGRAM CODE CORRESPONDING TO THE SEARCH MODULE |
| PROGRAM CODE CORRESPONDING TO THE NetWare MODULE |
| PROGRAM CODE CORRESPONDING TO THE UI (A) MODULE |
| PROGRAM CODE CORRESPONDING TO THE UI (B) MODULE |
| PROGRAM CODE CORRESPONDING TO THE CONTROL (A) MODULE |
| PROGRAM CODE CORRESPONDING TO THE CONTROL (B) MODULE |
| PROGRAM CODE CORRESPONDING TO THE MIB MODULE |
| PROGRAM CODE CORRESPONDING TO THE SNMP MODULE |
| PROGRAM CODE CORRESPONDING TO THE IPX HANDLER MODULE |
| PROGRAM CODE CORRESPONDING TO THE UDP HANDLER MODULE |
| PROGRAM CODE CORRESPONDING TO THE PROCESS SHOWN IN FIG. 7 |
| PROGRAM CODE CORRESPONDING TO THE PROCESS SHOWN IN FIG. 8 |
| PROGRAM CODE CORRESPONDING TO THE PROCESS SHOWN IN FIG. 9 |
| PROGRAM CODE CORRESPONDING TO THE PROCESS SHOWN IN FIG. 10 |
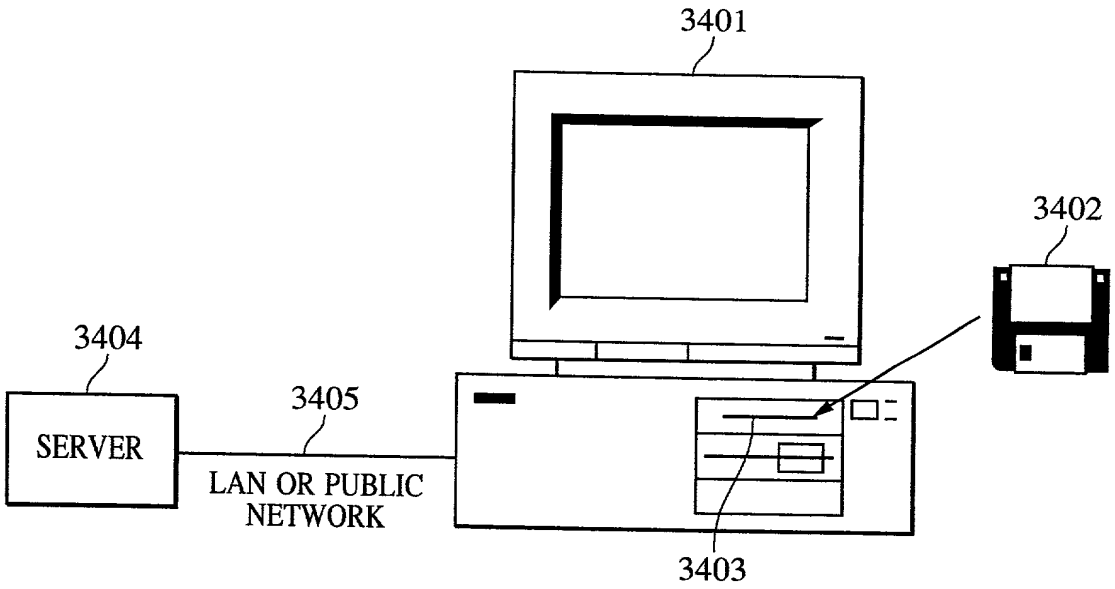
FIG. 15